

Title (en)
CURRENT SENSING ELECTRICAL CONVERTER

Title (de)
STROMMESSENDER ELEKTRISCHER WANDLER

Title (fr)
CONVERTISSEUR ÉLECTRIQUE AVEC DÉTECTION DE COURANT

Publication
EP 2766222 A4 20150429 (EN)

Application
EP 12839659 A 20121012

Priority
• US 201161546511 P 20111012
• US 2012060008 W 20121012

Abstract (en)
[origin: WO2013056083A1] An electrical converter assembly includes a sensing device coupled to one or more wires of a towing vehicle. The sensing device is configured to detect the current flow in the one or more wires and generate a signal in response to the current flow. The converter assembly further includes an electrical component in communication with the sensing device. The electrical component may generate a signal to a towed vehicle in response to the current flow detected by the sensing device. The sensing device may be a non-invasive sensing device. The non-invasive sensing device may detect current flow in the one or more wires of the towing vehicle without direct contact with the conducting element of the wires.

IPC 8 full level
B60Q 1/26 (2006.01); **B60Q 1/00** (2006.01)

CPC (source: EP US)
B60D 1/64 (2013.01 - US); **B60Q 1/0088** (2013.01 - EP US); **B60Q 1/305** (2013.01 - EP US); **B60Q 11/00** (2013.01 - EP US)

Citation (search report)
• [X] EP 2224253 A1 20100901 - SCAMBIA IND DEV AG [LI], et al
• [X] WO 03066376 A1 20030814 - WARD ELIZABETH MARY [ZA]
• [A] US 2009302858 A1 20091210 - KULKARNI CHANDRAKUMAR [US], et al
• [A] US 5739592 A 19980414 - RIGSBY BRUCE S [US], et al
• See references of WO 2013056083A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2013056083 A1 20130418; AU 2012322015 A1 20140515; BR 112014009068 A2 20170509; CA 2852076 A1 20130418;
EP 2766222 A1 20140820; EP 2766222 A4 20150429; EP 2766222 B1 20220608; MX 2014004430 A 20141006; US 10449815 B2 20191022;
US 11358424 B2 20220614; US 2014001730 A1 20140102; US 2020047574 A1 20200213

DOCDB simple family (application)
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EP 12839659 A 20121012; MX 2014004430 A 20121012; US 201213650906 A 20121012; US 201916658476 A 20191021